Closure Report for Corrective Action Unit 486: Double Tracks RADSAFE Area Nellis Air Force Range, Nevada
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CLOSURE REPORT
FOR CORRECTIVE ACTION UNIT 486:
DOUBLE TRACKS RADSAFE AREA,
NELLIS AIR FORCE RANGE, NEVADA

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December 2000

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CLOSURE REPORT FOR
CORRECTIVE ACTION UNIT 486:
DOUBLE TRACKS RADSAFE AREA,
PELLIS AIR FORCE RANGE, NEVADA

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R. Wycoff, Division Director
Environmental Restoration Division

Date: 12/21/00
Date: 12/26/00
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACRONYMS AND ABBREVIATIONS</td>
<td></td>
<td>vii</td>
</tr>
<tr>
<td>EXECUTIVE SUMMARY</td>
<td></td>
<td>ix</td>
</tr>
<tr>
<td>1.0 INTRODUCTION</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>1.1 Purpose</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>1.2 Scope</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>1.3 Closure Report Contents</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>2.0 CLOSURE ACTIVITIES</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>2.1 Description of Corrective Action Activities</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>2.1.1 Preplanning and Site Preparation</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>2.1.2 Excavation of the Area 6/Burial Pit</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>2.1.3 Backfilling and Regrading of Excavations</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>2.1.4 Decontamination of Equipment</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>2.2 Deviations from the CAP as Approved</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>2.3 Corrective Action Schedule as Completed</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>2.4 Site Plan/Survey Plat</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>3.0 WASTE DISPOSITION</td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>4.0 CLOSURE VERIFICATION RESULTS</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>4.1 Verification Sample Analyses</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>4.2 Use Restriction</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>5.0 SUMMARY AND RECOMMENDATIONS</td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>5.1 Summary</td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>5.2 Recommendations</td>
<td></td>
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</tr>
<tr>
<td>6.0 REFERENCES</td>
<td></td>
<td>19</td>
</tr>
</tbody>
</table>
TABLE OF CONTENTS (continued)

APPENDICES

Appendix A: Photographs of Closure Activity Work Areas
Appendix B: Waste Disposition Documentation
Appendix C: Verification Sample Analytical Reports
Appendix D: Field Notes
Appendix E: Comment Response Documentation

Distribution List

FIGURES

Figure 1 - Location Map of CAU 486 Double Tracks RADSAFE Area ......................... 2
Figure 2 - Vicinity Map of CAU 486 Double Tracks RADSAFE Area .......................... 3
Figure 3 - Site Plan of CAU 486 Site Showing Area of Excavation ......................... 12

TABLES

Table 1 - CAU 486 Corrective Action Schedule as Completed ............................. 11
## ACRONYMS AND ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
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<tr>
<td>bgs</td>
<td>below ground surface</td>
</tr>
<tr>
<td>BN</td>
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<tr>
<td>cm²</td>
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<td>CAIP</td>
<td>Corrective Action Investigation Plan</td>
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<td>Corrective Action Plan</td>
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<td>CAS</td>
<td>Corrective Action Site</td>
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<td>CAU</td>
<td>Corrective Action Unit</td>
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<td>CR</td>
<td>Closure Report</td>
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<tr>
<td>dpm</td>
<td>Disintegrations per minute</td>
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<td>DOE/NV</td>
<td>U.S. Department of Energy, Nevada Operations Office</td>
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<td>DTRSA</td>
<td>Double Tracks Radiological Safety Area</td>
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<tr>
<td>EPA</td>
<td>U.S. Environmental Protection Agency</td>
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<td>FIDLER</td>
<td>Field Instrument for the Detection of Low Energy Radiation</td>
</tr>
<tr>
<td>FFFACO</td>
<td>Federal Facility Agreement and Consent Order</td>
</tr>
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<td>ft</td>
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<tr>
<td>gal</td>
<td>gallon</td>
</tr>
<tr>
<td>HPGe</td>
<td>High Purity Germanium detector</td>
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<td>L</td>
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<td>NTS</td>
<td>Nevada Test Site</td>
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<td>TTR</td>
<td>Tonopah Test Range</td>
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<tr>
<td>UXO</td>
<td>Unexploded Ordnance</td>
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<tr>
<td>yd³</td>
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EXECUTIVE SUMMARY

The Double Tracks Radiological Safety Area (DTRSA), Corrective Action Unit (CAU) 486, was clean-closed following the approved Corrective Action Decision Document closure alternative and in accordance with the Federal Facility Agreement and Consent Order (FFACO, 1996). The CAU consists of a single Corrective Action Site, 71-23-001-71DT.

The DTRSA was used during May 1963 to decontaminate vehicles, equipment, personnel and animals from the Double Tracks Test. Double Tracks was one of four storage-transportation tests. The Double Tracks test was conducted in Stonewall Flat, approximately 32 kilometers (20 miles) east of Goldfield, Nevada, on the Nellis Air Force Range. The Double Tracks Test used a single device containing plutonium and depleted uranium and was designed to investigate the characteristics of plutonium-bearing particulate material formed by the non-nuclear detonation of a nuclear weapon.

All facilities associated with the DTRSA operation were removed. Based on available information, the areas of concern at the DTRSA consisted of a decon facility (vehicle decon pad and decon sump) in the southern half of the DTRSA, and a burial pit and former loading/unloading area located in the northern half of the DTRSA.

Based on the results of the Corrective Action Investigation, radiological field screening detected elevated gamma and alpha readings on excavated plastic debris. Swipe surveys taken on the plastic debris detected removable alpha. No contaminants were detected above preliminary action levels in soil samples. The debris excavated during the corrective action investigation was not characterized.

The clean-closure corrective action consisted of excavation, disposal, verification sampling, backfilling, and regrading. Field activities began on May 1, 2000, and ended on May 10, 2000. Soil that was associated with the radiologically contaminated man-made debris was placed into B-25 bins, moved to the designated waste management area where it was scanned, and hauled off-site for disposal. Verification soil samples were collected and analyzed to determine if clean closure had been achieved. Clean borrow soil was hauled to the site and used to backfill the excavation. The excavation was then regraded to promote drainage and minimize ponding of surface water. Since the site is clean-closed, post-closure care is not required.
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1.0 INTRODUCTION

This Closure Report (CR) describes the remediation activities performed at the Tonopah Test Range (TTR) Double Tracks Radiological Safety Area (DTRSA) which was used during May 1963 to decontaminate vehicles, equipment, personnel, and animals from the Double Tracks Test. The DTRSA is identified in the Federal Facility Agreement and Consent Order (FFACO) of 1966 as Corrective Action Unit (CAU) 486 (FFACO, 1996). Remediation of CAU 486 is required under the FFACO (FFACO, 1996). CAU 486 consists of the following Corrective Action Site (CAS) at the TTR (Figure 1):

- CAS 71-23-001: Double Tracks Radiological Safety Area

1.1 PURPOSE

The purpose of this CR is to provide documentation of the completed corrective action and to provide data confirming the corrective action. The corrective action was performed in accordance with the approved Corrective Action Plan (CAP) (U.S. Department of Energy [DOE/NV], 1999a) and consisted of clean closure by excavation and disposal.

A complete site history for the CAS is provided in the Corrective Action Investigation Plan (CAIP) U.S. Department of Energy, Nevada Operations Office (DOE/NV, 1998). Corrective action investigation activities were performed from November 16 through December 4, 1998, in two separate phases following the CAIP. Phase I was to locate the previous site features and dimensions using a backhoe. The areas investigated were the former Decontamination Facility, Burial Pit (Area 6) and the loading/unloading location (Area 2) (Figure 2). Phase II was the subsurface investigation consisting of soil sample collection from the three areas of the site. Of the three areas investigated, only the Burial Pit/Area 6, located in the northern half of the DTRSA contained waste. The material consisted of chicken wire, pieces of lumber, cloth, and plastic. A “contaminated material” sticker was observed on the plastic. Radiological field screening conducted on the man-made debris showed an elevated gamma count of 15,600 counts per minute using the Field Instrument for the Detection of Low Energy Radiation (FIDLER). Beta counts were below field screening levels. A swipe sample taken from the plastic detected removable alpha of 283 disintegrations per minute (dpm) per 100 square centimeters (cm²). Plutonium and uranium were not detected above minimum detectable activity levels in soil samples collected (DOE/NV, 1999b). The vicinity and area investigated are shown in Figure 2.
FIGURE 1
LOCATION MAP OF CAU 486 DOUBLE TRACKS RADSAFE AREA
FIGURE 2
VICINITY MAP OF CAU 486
DOUBLE TRACKS RADSAFE AREA
1.2 SCOPE

The corrective action as implemented consisted of the following activities:

- Preplanning and site preparation, including preparation of plans and permits, delineation of excavation boundaries, and mobilization of equipment and personnel to the site.
- Excavating impacted material. The excavated material was staged in a designated waste management area at the DTRSA pending transfer to the Nevada Test Site (NTS).
- Inspecting the excavation visually, and collecting verification soil samples for laboratory analysis. Based on results of verification samples, additional excavation was not required.
- Backfilling.
- Regrading the excavation to promote drainage and minimize ponding of surface water.
- Cleaning up the site, including disposal of site surface debris left by previous investigations, and removal of fencing.

1.3 CLOSURE REPORT CONTENTS

This document is divided into the following sections in accordance with the approved FFACO CR standardized outline:

- Section 1.0 - Introduction (purpose, scope, contents).
- Section 2.0 - Closure Activities (description, deviations, schedule, site plan).
- Section 3.0 - Waste Disposition (wastes encountered and their appropriate disposal).
- Section 4.0 - Closure Verification Results (laboratory analysis).
- Section 5.0 - Summary and Recommendations.
- Section 6.0 - References.

Certain sections and appendices of this document have been modified from the approved FFACO outline. The following FFACO sections and appendices have not been included or revised as indicated below:

- Use Restriction - Not applicable. The site was clean-closed.
- Closure Certification - Not applicable.
As-Built Documentation - Not applicable. No engineered structures were constructed.

Modifications to the Post-Closure Plan - Not applicable. The site was clean-closed.

The appendices included in this document are provided as follows:

- Appendix A: Photographs of Closure Activity Work Areas.
- Appendix B: Waste Disposition Documentation.
- Appendix C: Verification Sample Analytical Reports.
- Appendix D: Field Notes.
2.0 CLOSURE ACTIVITIES

This section of the CR details the specific corrective action activities implemented and completed during the closure of CAU 486. This section also provides a detailed schedule of site activities as completed. Photographs showing the work areas before, during, and after closure activities are included in Appendix A.

2.1 DESCRIPTION OF CORRECTIVE ACTION ACTIVITIES

2.1.1 Preplanning and Site Preparation

Planning documents prepared prior to beginning CAU 486 corrective action activities include the CAP (DOE, 1999a), Field Management Plan (Bechtel Nevada [BN], 2000a), Site Specific Health and Safety Plan (BN, 2000b), a construction work package, and an excavation permit. Aboveground and underground utilities were surveyed prior to starting work. No utilities were found as the site is a remote location of the Nellis Air Force Range. An unexploded ordnance (UXO) survey was conducted by U.S. Air Force Explosive Ordnance Disposal (EOD) specialists prior to starting work. UXO was not found at this location. In addition, a National Environmental Policy Act checklist was prepared and approved. Planned excavation boundaries were identified. A Readiness Review meeting was conducted on April 25, 2000. On April 26, 2000, the pre-job briefing was held and personnel and equipment began the mobilization to the site.

2.1.2 Excavation of the Area 6/Burial Pit

The Corrective Action Decision Document (CADD) (DOE/NV, 1999b) identified one location in the Area 6/Burial Pit where a “contaminated material” sticker was observed on a plastic bag. Radiological field screening conducted on the man-made debris showed an elevated gamma count of 15,600 counts per minute using the FIDLER. A swipe sample taken from the plastic detected removable alpha of 283 dpm per 100 cm². The recommended closure (DOE/NV, 1999b) includes clean closure for Area 6/Burial Pit by excavation and disposal. Since the extent of debris was not verified during the characterization efforts, the CAP (DOE/NV, 1999a) called for the excavation of three trenches within the burial pit to a minimum depth of 1.5 meters (m) (5.0 feet [ft]) below ground surface (bgs) using backhoe equipment. A central trench, approximately 23 m (75 ft) long, was to be excavated; and two additional trenches, approximately 9 m (30 ft) long, were to be excavated on either side of the central trench. Once debris was observed in a trench, the trench was to be extended laterally and vertically to delineate the extent of the debris to be removed.

On May 1, 2000, the mobilization and the Explosive Ordnance Disposal survey were completed. On May 02, 2000 the excavation of the Area 6/Burial Pit was begun. Using a backhoe, the first 0.6 m (2 ft) of soil was excavated and stockpiled as clean fill at the south end of the location.
At a depth of 0.76 m (2.5 ft), scrap metal and plastic debris was uncovered. No elevated radioactive readings were detected. A second stockpile was started, containing soil and man-made debris.

At 0.91 m (3.0 ft) bgs, wire, wood, and plastic was observed. No elevated radioactive readings were detected. The floor of the excavation at this point averaged 1.06 m (3.5 ft). A “pothole” was dug at the middle borehole, “NB3”, as identified in the CADD (DOE/NV, 1999b). Total depth of the pothole was 2.0 m to 2.1 m (6.5 ft to 7.0 ft bgs). Pothole NB3 was obviously a debris-layer portion of the Burial Pit excavation, however there was only a slight elevation in radiological activity (±200 dpm). The first B-25 bin was moved into the Exclusion Zone (EZ) and the first lift of soil and debris was placed into the bin. The Remote Sensing Laboratory personnel installed the High Purity Germanium (HPGe) detector over the bin and surveyed for radiological activity. No elevated radiological activity readings were detected. The second and third lifts were added to the bin with each lift checked with the HPGe detector. No elevated radiological activity readings were detected with any of the three instruments used on the project (Electra, FIDLER, and the HPGe). All debris at this point was trash, not hotline material as expected. The width of the “6NT1 trench”, identified in the CADD (DOE/NV, 1999b) as the trench containing “radiologically contaminated debris” was extended 1.82 m (6.0 ft). One plastic bag was found with Radiological Control tape (“Contaminated Material”) attached. The debris in the plastic bag consisted of tape, paper, food packaging, etc. No hotline waste was found. No elevated radiological activity readings were detected from this debris. The length and width of the excavation were extended and three more bags of trash were recovered with no elevated radiological activity readings.

One B-25 was set off to the side for any obviously radiological material or debris indicating elevated radiological activity. Also, in order to conserve the B-25 containers the decision was made to separate the majority of the clean soil from the other debris. Two B-25 boxes were staged, one being filled with obvious or indicating radiological debris, and the other filled with segmented material such as plastic, wire, wood, etc. As the excavation progressed, besides the abundant trash that was segmented and placed into the “trash” B-25, numerous plastic bags containing hotline trash and some loose debris with elevated radiological activity (300 to 4,000 counts/second [FIDLER]) was placed in the radiological material bin. As the bins were filled they were moved to the Contaminated Storage Area where they were surveyed, weighed, and placarded, pending transport to the NTS.

The completed excavation was visually inspected, all debris was removed, and no staining or discoloration was observed.

Verification soil samples collected in the former Area 6/Burial Pit area are numbered sequentially using the following nomenclature: CAU4860001, CAU4860002, etc. The samples were collected from the bottom of the Area 6/Burial Pit excavation. Details of soil sampling, handling, analyses, and results are discussed in Section 4.1.
On May 10, 2000 approximately 9 cubic meters \((m^3)\) (12 cubic yards \([yd^3]\)) of waste soil and compactable trash was transported off the TTR for disposal at the NTS. Waste disposition is discussed in Section 3.0.

**2.1.3 Backfilling and Regrading of Excavations**

The backfilling operation began on May 8, 2000. Due to the trash segmentation efforts, the source of backfill material (Area 3 Borrow Pit) identified as a pre-project requirement was no longer required. Stockpiled material at the site was sufficient to complete the backfill operation in order to level the area to the existing grade, restore drainage, and minimize ponding of surface water.

The stockpiled soil was subsequently placed in the excavation, and wheel compacted using the backhoe, forklift, or water truck, as needed. Final site regrading was completed on May 10, 2000.

**2.1.4 Decontamination of Equipment**

After the final load of radiologically contaminated debris was handled, equipment that had contacted the debris (backhoe bucket and shovel) was cleaned by first brushing off visible residue, then washing with a laboratory-grade detergent solution, and followed by a tap water rinse. Equipment decontamination was performed over a B-25 bin in order to contain rinsate in the excavated debris. Less than 4 liters \([L]\) (1 gallon \([gal]\)) of detergent solution and water rinse were used and was completely absorbed (no free liquid) into the waste debris.

Soil sampling scoops were decontaminated before field mobilization using a laboratory-grade detergent solution, an isopropanol rinse and deionized water rinses.
2.2 DEVIATIONS FROM THE CAP AS APPROVED

No significant deviations occurred from the approved scope of work as outlined in the CAP (DOE, 1999a). The following minor deviations occurred from the approved scope of work:

- Since the extent of debris was not verified during the characterization efforts, three trenches were to be excavated within the burial pit to a minimum depth of 1.5 m (5.0 ft) below ground surface using backhoe equipment. A central trench, approximately 23 m (75 ft) long, was to be excavated. Two additional trenches, approximately 9 m (30 ft) long, were to be excavated on either side of the central trench. Once debris was observed in a trench, the trench was to be extended laterally and vertically to delineate the extent of the debris to be removed. In actuality, one large excavation resulted from chasing debris, which would most likely correspond to the original Area 6/Burial Pit configuration.

- Verification soil samples were collected in fewer locations than planned. It was estimated that a total of fourteen samples would be collected including one duplicate and one equipment blank. The number of samples collected was contingent on the volume of debris encountered in the three trenches. Since one large excavation resulted from the debris removal operation, seven samples were sufficient to adequately represent the floor of the excavation. A duplicate sample and an equipment blank were also collected. Sampling locations were documented in the field and reported in the Technical Lead’s log book.

- The actual volume of generated waste varied from the planned volume. A smaller volume of waste soil and compactable hotline trash was disposed (9 m³ [12 yd³]) than planned (22.9 m³ [30 yd³]) because of the efforts to segment this material from the otherwise clean soil.

2.3 CORRECTIVE ACTION SCHEDULE AS COMPLETED

The corrective action field activities began on May 1, 2000, and were completed on May 10, 2000. A corrective action schedule as completed is provided in Table 1.

2.4 SITE PLAN/SURVEY PLAT

Survey data were not required for this closure. Because engineered construction was not required as part of this closure, as-built drawings are not included in this Closure Report. Figure 3 shows the location of the verification samples collected and the condition of the site following closure activities.
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TABLE 1
CAU 486 CORRECTIVE ACTION SCHEDULE AS COMPLETED
FIGURE 3
SITE PLAN OF CAU 486 SITE SHOWING AREA OF EXCAVATION
3.0 WASTE DISPOSITION

Wastes generated during the closure of CAU 486 were disposed as follows:

- Approximately 9 m$^3$ (12 yd$^3$) of waste soil and compactable hotline trash was staged on-site in a designated Waste Management Area and then transported off-site as Non-Regulated Waste and received at the NTS Radioactive Waste Management Site in Area 5 for disposal on May 11, 2000.

Waste disposition records, including the Uniform Hazardous Waste Manifest and NTS landfill documents, are available in NTS Waste Operations files and are summarized in Appendix B.
4.0 CLOSURE VERIFICATION RESULTS

4.1 VERIFICATION SAMPLE ANALYSES

Verification soil samples were collected from seven locations after the excavation reached designated boundaries, removed all debris, and no visible staining was observed. The samples were collected with decontaminated stainless steel sampling scoops and placed in labeled sample containers and then secured with custody seals. A FIDLER was used to help determine if soil samples exceeded background levels. The containers were placed in an ice-filled chest, transported under chain-of-custody to the Analytical Services Laboratory in Mercury, Nevada, for analyses. Samples from all seven locations were analyzed for 20-minute gamma spectroscopy (U.S. Environmental Protection Agency, 1996).

Since no other constituents of concern were identified during site characterization activities, verification samples were only analyzed for 20-minute gamma spectroscopy. The analytical results indicate that no man-made radiation was detected above action levels and confirm that no further excavation is needed. The analytical reports are found in Appendix C.

4.2 USE RESTRICTION

A clean closure was performed at this CAS. Land use is unrestricted. A Post-Closure Plan is not necessary for this site.
5.0 SUMMARY AND RECOMMENDATIONS

5.1 SUMMARY

The following site closure activities were performed at the CAU 486 site located at the TTR and are documented in this report:

- Preplanning and site preparation.
- Excavating and removing waste.
- Characterizing waste on-site for disposal.
- Collecting verification soil samples.
- Backfilling excavation with stockpiled soil and regraded to promote drainage and minimize ponding of surface water.
- Disposing of excavated materials following applicable federal, state, and DOE regulations.
- The field closure activities conducted at CAU 486 were completed following the approved CAP (DOE/NV, 1999a) with only minor deviations as specified in Section 2.2.

5.2 RECOMMENDATIONS

Since the clean closure for CAU 486 has been completed following the Nevada Division of Environmental Protection (NDEP) approved CAP (DOE/NV, 1999a) as documented in this CR, the DOE requests:

- A Notice of Completion be provided by the NDEP to DOE for the closure of CAU 486 (CAS 71-23-001-71DT).
- CAU 486 be moved from Appendix III to Appendix IV of the FFCO “Closed Corrective Action Units.”
6.0 REFERENCES

BN, see Bechtel Nevada.


DOE/NV, see U.S. Department of Energy.

EPA, see U.S. Environmental Protection Agency

FFACO, see Federal Facility Agreement and Consent Order.


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APPENDIX A

PHOTOGRAPHS OF CLOSURE ACTIVITY WORK AREAS
NOTE: 45 PHOTOGRAPHS EXIST OF THIS CLOSURE, ATTACHED IS A SELECTION
APPENDIX B

WASTE DISPOSITION DOCUMENTATION
CERTIFICATE OF DISPOSAL

This is to certify that the Double Tracks (CAU 486) Waste Stream Number LRY5-LLFY00006, MEF Number F00006, with package numbers 982810, 982774, 982817, and 982803 were shipped and received at the Nevada Test Site Radioactive Waste Management Site in Area 5 for disposal as stated below.

Shipped by:

William C. Nicosia
Print Name

Bechtel Nevada Waste Control
Organization

Scientist
Title

Signature

Date

Received by:

Kareen E. Williams
Print Name

Bechtel
Organization

Scientist
Title

Signature

Date
## Bechtel Nevada

### PACKAGE INVENTORY

**WSID NO.** KL1K5KLK1K10K101016

**PKG. No.** 91A2PA11A

#### PREPACKING CHECKS:

<table>
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<th></th>
<th>BOX DRUM</th>
<th>INTERMODAL</th>
<th>SUPERSACK</th>
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<tbody>
<tr>
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<tr>
<td>Free From External Defects (Holes, Significant Rust, Faulty Vents/Seams)</td>
<td>P</td>
<td>Y</td>
<td>X</td>
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<tr>
<td>Package Empty</td>
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<td>Devoid of Internal Free Liquids</td>
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<td>P</td>
<td>Y</td>
<td>X</td>
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<tr>
<td>Rubber Gasket/Molding</td>
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<td>Closure Secure (Intermodal Only - No Internal Light Leaks)</td>
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</tr>
<tr>
<td>Lifting Straps</td>
<td>N</td>
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**Name** Stacy L. Eldon

**Employee No.** 180205

**Date** 8-15-99

**Name** S. Duke

**Employee No.** 974692

**Date** 5-2-00

#### PACKING UNITS

- B = Bag
- D₁ = 30 Gallon Drum
- D₂ = 55 Gallon Drum
- D₃ = 85 Gallon Drum
- D₄ = Other Drum
- X₁ = 4' x 4' x 7' Box
- X₂ = 4' x 2' x 7' Box
- S = Supersack
- K = Bulk
- I = Intermodal Container

**TID No.** 50192

**REMARKS** Spill Not Have TRASH

**Activity** 2.35E+02

**Gross Wt.** 7910 lbs.

**Tare Wt.** 721 lbs.

**Net Wt.** 7190 lbs.

**Barcodes** On

**Shipment No.** 1D1101001014

**Empl. No.** 974692

**Date** 5-2-00
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**Packing Units**


X₁ = 4' x 4' x 7 Box, X₂ = 4' x 2' x 7 Box, X₃ = Supersack, K = Bulk.

**Intermodal Container**

Name: S. Duke

Employee No.: 97642

Date: 5-2-99

**Remarks**

Soil and Hazardous Waste
# Package Inventory

## Prepacking Checks:

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<th>INTERMODAL</th>
<th>SUPERSACK</th>
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<td>Rubber Gasket/Molding</td>
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## Shipment Prep:

- **Activity:** 4,085+05
- **Gross Wt.:** 5900 lbs.
- **Tare Wt.:** 700 lbs.
- **Net Wt.:** 5200 lbs.
- **Barcodes:** On
  - **Shipment No.:** /!
  - **Pkg. No.:** /!
  - **Gross Wt.:** /!

## Packing Units:

- **B = Bag,** **D₁ = 30 Gallon Drum,** **D₂ = 55 Gallon Drum**
- **D₃ = 85 Gallon Drum,** **D₄ = Other Drum,**
- **X₁ = 4' x 4' x 7' Box,** **X₂ = 4' x 2' x 7' Box,** **S = Supersack,** **K = Bulk,**
- **I = Intermodal Container**

## Packing:

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<th>Unit No.</th>
<th>Remarks</th>
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- **Remarks:** Soil & Hot Live Trash

## Remarks:

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<td>501181</td>
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Bechtel Nevada

PACKAGE INVENTORY

PREPACKING CHECKS:

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<th>YES</th>
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| Free From Internal Defects | YES | NO | COR |
| (Holes, Significant Rust, Faulty Welds/Seams) |     |    |     |

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</thead>
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<td></td>
</tr>
</tbody>
</table>

| Closure Secure | YES | NO | COR |
| (Intermodal Only - No Internal Light Leakage) |     |    |     |

| Lifting Straps | YES | NO | COR |
|                |     |    |     |

SHIPMENT PREP:

Activity 3.02504B

| Gross Wt. | 5350 lbs. |
| Tare Wt.  | 720 lbs.  |
| Net Wt.   | 9630 lbs. |

Barcodes: On

| Shipmnt No. |          |
| Pkg. No.    |          |
| Gross Wt.   |          |

PACKING UNITS

B = Bag, D, = 30 Gallon Drum, D, = 55 Gallon Drum, 85 Gallon Drum, D, = Other Drum, X, = 4' x 4' x 7' Box, X, = 4' x 2' x 7' Box, S = Supersack, K = Bulk, I = Intermodal Container

PACKING:

UNIT: K
Lot No.
Unit No.

REMARKS: So: 1 & Hot line TRASH

Name: S. Duke
Emp. No.
Date: 5-2-00
# Waste Traveller

| Unit Type | Unit No. | User | Contact Reading mRH | Prohibited Materials Excluded | RW Name & Emp. No. | Date | WAC/SPM # | Transfer Date | Receiving Date | Name & Emp. No. | Storage Container Number | Packed Date | Name & Emp. No. | Package Number | Shipping Number | Date |
|-----------|---------|------|---------------------|-------------------------------|-------------------|------|-----------|--------------|----------------|----------------|-------------------|-------------------|----------------|---------------|---------------------|-----------------|------|
|           | X 1000| Y    | S. Duke 974692      | Y                             | 5-4-00            |      |           |              |                | S. Duke 974692 | 5-9-00           | S. Duke 974692 | 982800         | NC0004          | 5-100          |
|           | X 1000| Y    | S. Duke 974692      | Y                             | 5-4-00            |      |           |              |                | S. Duke 974692 | 5-9-00           | S. Duke 974692 | 982803         | NC0007          | 5-100          |
|           | X 1000| Y    | S. Duke 974692      | Y                             | 5-4-00            |      |           |              |                | S. Duke 974692 | 5-9-00           | S. Duke 974692 | 982817         | NC0004          | 5-100          |
|           | X 1000| X    | S. Duke 974692      |                               | 5-4-00            |      |           |              |                | S. Duke 974692 | 5-9-00           | S. Duke 974692 | 982779         | NC0004          | 5-110          |

**Remarks:** Soil & Hotline TRASH

**Distribution:** White - Health Protection Department (HPD) Waste Handling Facility  
Pink - Health Protection Department (HPD) Generation Location  

**Units:**  
B = Bag  
D1 = 30 Gal. Drum  
D2 = 55 Gal. Drum  
D4 = Other Drum  
X4 = 4x4x4 Box  
X5 = Other Box  
K = Bulk  

**Event Code:**

**LOT NO:** 02 - D6T

**WSID NO:** K105K51KFDY001006

**MEF NO:** E106061

**YR EVENT CODE:**

---

# Package Storage and Disposal Request

**Shipment Number:** DPL00004  
**Date:** 10-May-00

**Prepared By:** [Signature]

## Package Storage and Disposal Details

### Package 1

**Package No:** 982774  
**Container Code:** 210  
**External Volume (m³):** 2.260E+00  
**Waste Volume (m³):** 2.034E+00  
**Contact (mSv/h):** 0  
**1 Meter (mSv/h):** 0  
**Gross Weight (kg):** 2.427E+03  
**Net Weight (kg):** 2.100E+03  
**Completed Date:** 10-May-00  
**Operation Type:** B  
**Activity Date:** 09-May-00

### Package 2

**Package No:** 982803  
**Container Code:** 210  
**External Volume (m³):** 2.260E+00  
**Waste Volume (m³):** 2.034E+00  
**Contact (mSv/h):** 0  
**1 Meter (mSv/h):** 0  
**Gross Weight (kg):** 3.406E+03  
**Net Weight (kg):** 3.075E+03  
**Completed Date:** 10-May-00  
**Operation Type:** B  
**Activity Date:** 09-May-00

### Package 3

**Package No:** 982810  
**Container Code:** 210  
**External Volume (m³):** 2.260E+00  
**Waste Volume (m³):** 2.034E+00  
**Contact (mSv/h):** 0  
**1 Meter (mSv/h):** 0  
**Gross Weight (kg):** 3.890E+03  
**Net Weight (kg):** 3.281E+03  
**Completed Date:** 10-May-00  
**Operation Type:** B  
**Activity Date:** 09-May-00

### Package Storage and Disposal Table

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<tr>
<th>Waste Stream /Profile</th>
<th>Form Code</th>
<th>Form Description</th>
<th>Treatment Code</th>
<th>Treatment Description</th>
<th>Rev. No.</th>
<th>Revision Date</th>
<th>Nuclide</th>
<th>Qty (Bq)</th>
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### Package Storage and Disposal Table

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### Package Storage and Disposal Table

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**Shipment Number:** DPL00004  
**Date:** 10-May-00  
**Manitfest Number:** [Signature]
Package Storage and Disposal Request

Shipment Number: DPL00004
Date: 10-May-00

Package No: 882817  Contact (mSv/h): 0  Completed Date: 10-May-00
Container Code: 210  1 Meter (mSv/h): 0  Operation Type: B
External Volume (m³): 2.260E+00  Gross Weight (kg): 2.688E+03  Total Activity (Bq): 4.082E+05
Waste Volume (m³): 2.034E+00  Net Weight (kg): 2.368E+03  Activity Date: 09-May-00

Comment:

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<tr>
<th>Waste Stream /Profile</th>
<th>Form Code</th>
<th>Form Description</th>
<th>Treatment Code</th>
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<th>Rev. No.</th>
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Prepared By: [Signature]
Manifest Number:

Prepared By: [Signature]
Manifest Number:
APPENDIX C

VERIFICATION SAMPLE
ANALYTICAL REPORTS
# Bechtel Nevada Corporation

**ANALYTICAL SERVICES LABORATORY**  
P.O.Box 3936, N. Las Vegas, NV 89036

Reported to: Env. Restoration - Ind. Sites  
P.O. Box 98521  
M/S NTS306  
Las Vegas, NV, 89193-8521

Type: Soil, Gross  
Analysis: Gamma Spec.-20 Minute Scan

Report Date: 15-NOV-00  
Sample Delivery Group: D321  
Batch: N772  
Program: 720

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<th>MDC</th>
<th>Result Units</th>
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<th>Tracer Yield %</th>
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**Comment:**  
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**Prepared by:** [Signature]  
Date: 11/10/00

**Approved by:** [Signature]  
Date: 11/15/00

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**Note:** Error is the Prep + 2.0 Sigma Error

(Original Author)
# Bechtel Nevada Corporation

**ANALYTICAL SERVICES LABORATORY**

P.O.Box 3936, N. Las Vegas, NV 89036

Reported to: Env. Restoration - Ind. Sites
P.O. Box 98521
M/S NTS306
Las Vegas, NV, 89193-8521

Type: Soil, Gross

Analysis: Gamma Spec.-20 Minute Scan

Report No.:

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**Comment:**
Data generated from analyses of CAU 486 samples. This report is follow up to original submitted.

**Prepared by:** [Signature]  Date: 11/15/2000

**Approved by:** [Signature]  Date: 11-19-00

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Prepared by: [Signature] Date: 11/30/00

Approved by: [Signature] Date: 11/15/00

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Prepared by: [Signature] Date: 11/10/00

Approved by: [Signature] Date: 11/19/00

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### Bechtel Nevada Corporation

ANALYTICAL SERVICES LABORATORY
P.O.Box 3936, N. Las Vegas, NV 89036

Reported to: Env. Restoration - Ind. Sites
P.O. Box 98521
M/S NT306
Las Vegas, NV, 89193-8521

Type: Soil, Gross
Analysis: Gamma Spec.-20 Minute Scan

Report Date: 15-NOV-00
Sample Delivery Group: D321
Batch: N772
Program: 720

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Comment:
Data generated from analyses of CAU 486 samples. This report is follow up to original submitted.

Prepared by: [Signature] Date: 11/10/00

Approved by: [Signature] Date: 11/19/00

Qualification Flags:
- E = Estimated Quantity
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Note: Error is the Prep + 2.0 Sigma Error

(COA)
## Bechtel Nevada Corporation

**ANALYTICAL SERVICES LABORATORY**  
P.O.Box 3936, N. Las Vegas, NV 89036

Reported to: Env. Restoration - Ind. Sites  
P.O. Box 98521  
M/S NTS306  
Las Vegas, NV, 89193-8521

Type: Soil, Gross  
Analysis: Gamma Spec.-20 Minute Scan

Report No.:  

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**Note:** Error is the Prep + 2.0 Sigma Error

**Prepared by:**  
Date: 11/15/00

**Approved by:**  
Date: 11/15/00

(ICOA)
# Bechtel Nevada Corporation

**ANALYTICAL SERVICES LABORATORY**
P.O.Box 3936, N. Las Vegas, NV 89036

Reported to: Env. Restoration - Ind. Sites  
P.O. Box 98521  
M/S NTS306  
Las Vegas, NV, 89193-8521

Type: Water  
Analysis: Gamma Spec.-20 Minute Scan  
Report Date: 16-NOV-00  
Sample Delivery Group: D321  
Batch: N773  
Program: 720

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**Comment:**  
Data generated from analyses of CAU 486 samples. This report is follow up to original submitted.

Prepared by: [Signature]  
Date: 11-16-00

Approved by: [Signature]  
Date: 11-16-00

---

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**End of Report *****

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**Pay Item** | **Description** | **Parameter Code** | **Anal Cd** | **Filt Cd** | **Prior Lvl** | **Anal Lvl** | **Comments** |
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This package conforms to the conditions and limitations specified in 49 CFR 173.421 for excepted radioactive material, limited quantity, n.o.s., UN2910.
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This package conforms to the conditions and limitations specified in 49 CFR 173.421 for excepted radioactive material, limited quantity, n.o.s., UN2910.
To: W. F. Johnson  
From: L. W. Hatcher  

Date: June 6, 2000
No.: 2154-LH-00-0448a

Subject: DATA REPORT FOR SAMPLE DELIVERY GROUP (SDG) D321-AMENDED
Project No. 04001

Analytical Services Laboratory’s (ASL) data results for the gamma spectroscopy analyses for the eight soil samples and one water sample submitted to the laboratory on May 16, 2000 are included with a copy of this memorandum to J. L. Smith. The service statement summarizing the costs and work performed by the Analytical Services Laboratory is also included.

A Bechtel Environmental Integrated Data Management System (BEIDMS) deliverable was also requested for this sample set. The BEIDMS electronic data file was loaded on June 1, 2000 in BEIDMS under document identifier “CAU 486 DTRSA-1”.

Please direct any questions you may have to your Client Service Representative, Ted Redding, at 295-7220.

LWH:mcr
Subject Code: ENV3

cc: Correspondence Control, NLV008  
S.M. Parsons-DePry (results enc.), NTS306  
D. M. Van Etten NLV082  
ASL D321, (results enc.) NTS273
0830 DEPART FOR TTR
1100 - TTR, LUNCH
1200 - SECURITY OFFICE, M/CATHY RE SENSITIVE EQUIPMENT PASS
- OVER TO RADIO SHOP M/KEN MOLKE, PICK UP RADIOS (3)
- BACK TO MAIN GATE, PICK UP SAT. TELEPHONE
- BACK TO OFFICE.
1330 - FORM UP GROUP W/HEAVY EQUIPMENT, HEAD OUT TO DOUBLE TRACKS
1415 - ARRIVE DOUBLE TRACKS
1415 - UNLOAD EQUIPMENT.
1500 - EOD ARRIVES, STAFF SST WALTERS & SR. ARMAN PAYNE.
VERIFY TRAINING RECORDS, EOD BEGINS SWEET OF RADSAFE AREA.
1525 - EOD REPORTS METALLIC SIGNATURE APPROX 30 METERS X 5 METERS CORRESPONDING WITH CENTER OF BURIAL PIT ('TOO BIG TO BE A BOMB')
1530 - EOD DEPARTS.
1600 - DEPART DOUBLE TRACKS.
1640 - ARRIVE RN OFFICE.
1745 - SECURE OFFICE.
0630 - Form up at BN Office, Clear, Calm, 60°F

0700 - Tailgate Safety Briefing, Project Documentation
- Review today's activities, gas-up, prep for field, etc.
- Logistics: fuel for equipment, portable toilets

0800 - Formed up Main group, Depart for DIRSA, Access gate's

0900 - Arrive DIRSA, Set-up, Prep equipment, Site walk
- Discuss excavation to start, orient on original burial pit
- Paint surface & photo's; start with #62, 61, 60 of burial pit looking north & west, 3 borings, stakes, etc.

0926 - Attempted to call J. Bonn using satellite phone - Update.

0940 - Review RWP, Signatures, Operator - Jim Fisher & HP-Craig Lyons suit-up
- Den pre Steve Riedhauser, Radiation Scientist (RS) joins the entry team.

1000 - Entry team into exclusion zone (EZ), backhoe into EZ

1010 - Begin excavation of burial pit, photo's #59, 58
- Using fidler's in excavation, photo #57, stockpiling clean-fill at south end of excavation

1050 - Excavation about 2.5 ft. deep, beginning to see metal and plastic scraps, no elevated readings on fidler yet, continue to stockpile clean-fill at south end of excavation.

1110 - At approximately 3.0 ft RGF. Wire, wood & plastic observed, no elevated radiological readings observed, continue stockpiling of clean fill, photo #56 looking south.

1200 - Lunch

2:30 - Re-arranging generator and hook-up/fuse panel in order to facilitate spotting RAd counting/lunch trailer.
- C. Lyons, R. Templeton and I meet to discuss operation.
MEETING TO DISCUSS OPERATIONS CONTINUED - WE WILL CLEAR FLOOR OF EXCAVATION, AND MOVE CLEAN-FILL TO NE CORNER OF OF EZ, AND THEN POKE HOLE THE EXPECTED DEBRIS LOCATION, FISHER BACK INTO EZ

1300 - BEGIN CLEANING EXCAVATION AND MOVING CLEAN-FILL.

1359 - C. LYONS AND D. COOPER SUIT-UP & ENTER EZ.

1412 - START FIRST POKE HOLE

- STEVE RIEHHAUSER DONS PPE & ENTERS EZ

1430 - POKE HOLE & EXCAVATE INTO DEBRIS AT MIDDLE BOREHOLE; "NB. 3"

LOCATION. WE ARE OBVIOUSLY IN THE DEBRIS LAYER PORTION OF THE BURIAL PIT EXCAVATION, SEE PHOTO #55.

OVERALL EXCAVATION IS APPROXIMATELY 20 FT X 30 FT

"FLOOR OF EXCAVATION IS APPROXIMATELY 20 FT X 30 FT X 3.5 FT"

"POKE HOLE" IS APPROXIMATELY 6.5-7 FT DEEP.

NOTE: NO LEAK ELEVATION IN RAD (±1000 DPM) IN ONE SMALL AREA OF DEBRIS, AND THAT IS ALL CONSIDERING THE AMOUNT OF TRASH EXPOSED

1445 - CONTACTED J. BONN RE CONFIRMATION OF PLAN.

- CONTINUE WITH WORK PLAN.

1500 - MOVED THE FIRST B-25 INTO THE EZ, FILLED THE B-25 WITH SOIL AND DEBRIS.

1515 - INSTALLED THE HPGE DETECTOR OVER B-25, FIRST LIFT - NO INDICATIONS OF ACTIVITY, FILLED B-25 WITH SECOND LIFT, " " " " " " " " " THIRD LIFT, " " " " " " " " " ON ANY OF THE THREE INSTRUMENTS (ELECTRA, FIDLER, OR HPGE)

1530 - ALL DEBRIS AT THIS POINT IS TRASH, NO HOT-LINE MATERIAL

1545 - MOVED BACKHOE TO EAST SIDE OF TRENCH, EXTEND WIDTH OF

*HIGH PURITY GERMANIUM
1545 - Continued. Extending width of trench in the area of the "ENT1" trench (trench containing "radiologically contaminated debris"). One bag has been found with tape and radiation gauges attached, but it consists of trash (x). Not hot-line waste, and there is no elevated radiological activity. (x) Mostly tape, paper, food packaging, etc.

1600 - Moved backhoe to south side of excavation, extend length of excavation.

1615 - Moved backhoe to south north side of excavation, extend length of excavation toward DVE 02 May 00.

Cut east west trench across north end of excavation.

1630 - Three bags of trash observed in excavation.
- Secure excavation for the day.
- Frisk crew out of EZ, breakdown location.
- Lock up equipment in trailer.

1700 - Secure site & depart

1710 - Leave Range 71N

1750 - Back to office, project documentation.
0630 - Pickup lunches, to office, project documentation

0645 - Telecon w/ Ji Bonn - Operations.

0700 - Tailgate safety briefing, calls to Nells range coordination, logistics

0730 - Form-up group & head for double tracks.

0805 - On site, set-up, clear, LT breeze, ± 70°F

- Met w/ C. Lyons, we decided to: 1. Set one B-25 off to the side for anything quickly Rad material or indicating elevated Rad. 2. In order to conserve the B-25's, we will attempt to somewhat separate the majority of the clean soil from the other debris.

0845 - Telecon from range scheduling, re schedule, today thru Friday. Tomorrow we will be visited by a helicopter operating 100 ft AGL. I told range scheduling we did not have a problem with this operation.

- Staging B-25's, Photos #51, 52, 53.

0930 - Water truck on site - wet down excavation & immediate surrounding area.

0940 - Begin loading B-25's, segmenting material, plastics, wire, etc.

- Attempted to contact J. Bonn to verify the HP's change to the work instructions - negative contact.

1030 - One bag separated from all the other debris that is marked with contamination tape, HP measures activity at 4000 counts/sec, on the fideler. 9 Photos (41-50±) of operation at this point, excavating, dust control, trash separation, etc.

1115 - Found one bag measuring 500 counts/sec, and two black totes measuring 800 & 700 counts/sec respectively.
1200 - Lunch

1230 - Operator dons PPE - Fasikout forklift in preparation for site support facility re-arrangement, B. Templeton present in route to site with electrician.

1250 - Templeton & electrician on site, move water buffalo & generator, electrician hooking up generator.

1315 - Resume excavation/separation process

1335 - One bag collected with Radcon tape, containing mostly tape - no elevated activity apparent.

1340 - One large bag of anti-Cs and totes collected and added to "Rad contaminated" B-25, no elevated activity apparent.

1350 - Two B-25s are now full, change-out with empty boxes.

1414 - Resume excavation/separation process.

1500 - A/A, photos 38, 39, 40, 41.

1515 - One bag of gloves recovered, no elevated activity apparent.

- One bag of latex gloves recovered, 370 counts/sec indicated.

1615 - Continue excavation/separation process.

- Clean-up excavation, secure location.

1630 - Depart range 7 IN.

1700 - Arrive B-HQ, Area 3.

- Project documentation.

---

DISCLOSED TO AND UNDERSTOOD BY

SIGNATURE

DATE 03 MAR 85

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60603  Made in USA
0630 - Pick up lunches, to office, Project Documentation.
0700 - Tailgate Safety Meeting, Farm-up Group
0730 - Depart for Double Tracks
0810 - Arrive Double Track Site, Prep to begin work.
0830 - Begin Excavation/Seperation Procedure
0850 - One bag (plastic) containing Rad Tape, 700 counts/sec
0905 - Continue Excavation/Seperation Procedure, Photos # 75, 36, 37, 78...
0950 - One bag (plastic) containing Rad Trash, 600 counts/sec (Adler)
  * Rubber, PPE, Wood, etc.

Continued on next page

Scientific Binder Productions Chicago 60606 Made in USA
1000 - DON PPE, ENTER EZ, LAYOUT VERIFICATION SAMPLES, MEASURE EXCAVATION, SEE SKETCH ON PAGE 64
- CLEAN UP FLOOR OF EXCAVATION
1100 - DOFF PPE, EVERYONE OUT OF EZ, BACKhoe OPERATOR PUTTING BERM AROUND EXCAVATION FOR THE WEEKEND
1200 - LUNCH/SECURE LOCATION
- HEAD BACK TO BN-OFFICE
1330 - BN OFFICE
- PROJECT DOCUMENTATION, TELECONS, LOGISTICS
1430 - SECURE AND DEPART LOCATION

Work continued to Page [blank]
0830 - ARRIVE TTR, PICK UP CAMERA PERMIT, STOPPED BY THE BASE COMMANDER'S OFFICE, THE CO. WAS NOT IN.
- TO BN OFFICE, TELECON WITH J. BONN: 1. DISCUSSION RE EXTENDING THE EXCAVATION, 2. LOGISTICS.
- VARIOUS TELECONS: BLACKJACK - RANGE SCHEDULING, LASERS WORKING IN RANGE 71 SOUTH, THIS AFTERNOON.

1050 - TAILGATE SAFETY MEETING, REVIEW TODAY'S TASKS, HABERMAS E-MAIL.

1130 - LUNCH

1230 - FORM-UP & HEAD FOR DOUBLE TRACKS.

10 - WAITING ON GATE ACCESS (CACTUS SPRING GATE) (AFTER BEING CHASED LAST WEEK BY CACTUS, FOR NOT GIVING THEM ENOUGH TIME, I CALLED TODAY FROM THE BN OFFICE PARKING LOT, AND WE STILL HAD TO WAIT FOR THEM AT THE GATE)

1330 - ARRIVE AT DOUBLE TRACKS SITE, PREP, DON PPE, CHECK EQUIPMENT.
- BEGIN EXTENDING NORTH AND SOUTH BOUNDARY OF THE EXCAVATION

1330 - SET UP INTO EZ., EXCAVATE AND COLLECT SAMPLES. SEE DIAGRAM # 2.

1555 - SAMPLING # 1, 1540 - SAMPLING # 2, 1545 - SAMPLING # 3, 1550 - SAMPLING # 4

1555 - SAMPLING # 5, 1600 - SAMPLING # 6, 1605 - SAMPLING # 7, 1610 - SAMPLING # 8, 1615 - PUSH IN CORNERS OF EXCAVATION, ALL SAMPLES CHECKED WITH HPGe DETECTOR, DMC, AND THEN SWiped BY RTE.

1650 - EVERYONE OUT OF EZ., SECURE AND DEPART LOCATION.

1720 - BACK TO BN OFFICE, PROTECT DOCUMENTATION.

---

Work continued to Page

SIGNATURE

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE
0630 - Form-up at BN office. Project documentation.

0700 - Tailgate safety meeting, discuss today's activities, prep for field.
Gas, lunches, ice, etc. Head for double tracks, clear gates.

0815 - Arrive double tracks radsafe, high clouds, 65°F, high clouds.

- Operator dons PPE, heads into EZ, service equipment.

0830 - Laborer dons PPE, into EZ to assist operator, separate plastic from spoils pile. Operator begins (continues) backfilling excavation.

0910 - RCL (R.D.) dons PPE, access "decontamination facility" for "stamp and tromp" in order to deposit area.

1000 - Escorted RSL off range 71N.

1020 - Blew front left tire on backhoe, contacted B. Templeton at the office for repair.

1130 - Fuel truck and electrican on site, disconnect trailer.

1145 - Operator comes out of EZ for lunch.

1240 - Operator & laborer into EZ, use backhoe bucket to transfer soil from spoil pile to excavation; fuel truck & electrican depart (escorted).

- Backhoe tire logistics.

1430 - Templeton, Teamster, Nelson & Brown on site.

- Hook-up water buffalo, various tire calls.

1455 - Templeton, Teamster, Nelson & Brown depart.

- Begin weighing B-25S.

1530 - Begin filling boxes.

1600 - B-25S filled with soil, move to contaminated storage area for swipes.

- Move backhoe to fence, swipe tire for repair.

1630 - Secure and depart location.

*"Boot, scoot, and Boogie, by Brooks & Dunn" (R.D.)
0630 - MET D&D TIRE AT MAIN GATE.
0700 - BACK TO BN OFFICE, LOGISTICS, TAILGATE SAFETY MEETING.
0800 - ARRIVE DOUBLE TRACKS SITE, CLEAR, +60°F, BREEZY.
    - PREP TO WEIGH B-255, TIRE REPAIR COMPLETE*
0820 - BEGIN WEIGHING, B-255.
    - SETUP TO ENTER EZ TO BACKFILL EXCAVATION.
0840 - OPERATOR INTO EZ TO BACKFILL EXCAVATION, PHOTOS
    - WASTE OPS CLOSING, SECURING B-255S FOR TRANSPORTATION.
    - LABORERS REMOVING FENCE FROM OLD DECONTAMINATION FACILITY.
0940 - COMPLETED BACKFILLING EXCAVATION, SURVEY FOR RELEASE
1010 - WATER DOWN EXCAVATION.
1200 - LUNCH. TELECON W/ RANGE SCHEDULING RE TOMORROWS BOMB DROP
1230 - PREP FOR LOADING B-255S. WIND INCREASING-BLOWING DUST
1300 - TRUCKS ARRIVE, LOAD B-255s.
1415 - LOAD GENERATOR
1435 - FORKLIFT AND TRUCK (TRACTOR WITH FLATBED) INTO LOADING RAMP ABOUT
    4 MI EAST OF DOUBLE TRACKS SITE.
1500 - LOAD UP RCT/SUPPLY/TESTING EQUIPMENT TRAILER
1600 - I DEPARTED SITE ESCORTING 3 TRUCKS AND 4 OTHER WORK VEHICLES
    - LEAVING BILL P & OPERATOR & 1 LABORER & HEALTH & SAFETY TO
    - PULL POSTS, VISIBILITY DOWN TO ABOUT 2 MI, 40-50 MPH WINDS.
1630 - BN OFFICE
1700 - TEMPLETON & CREW BACK TO OFFICE, PROJECT DOCUMENTATION
1745 - SECURE & DEPART OFFICE.

* WE WHERE DIRECTED TO USE D&D TIRE FROM TONOPAH BY SUEZANNE, AREA 6 EQUIP.
APPENDIX E

COMMENT RESPONSE DOCUMENTATION
<table>
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<tbody>
<tr>
<td>1. General</td>
<td>M</td>
<td>&quot;...it is unclear as to whether the minimum detectable activity of Am-241 (1 pCi/g) was obtained in the gamma spectroscopy analysis of the verification samples. NDEP requests the Am-241 results for the verification samples also be reported in addition to the K-40, Ra-226, Th-228, and Th-232 results.&quot;</td>
<td>The Am-241 results have been incorporated into the Final Closure Report in Verification Samples Analytical Reports (Appendix C).</td>
<td>Y</td>
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</tbody>
</table>

a. Comment Types: M=Mandatory  S=Suggested
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